

SHEETROCK® MH Brand Setting-Type Joint Compound



For strong, crack-resistant joints

- Sets quickly for rapid joint finishing and decorating.
- Exceptionally strong bond and low shrinkage.
- Excellent check-crack resistance in heavy fills.
- Strong, crack-resistant joints on wall and ceilings.

Description

SHEETROCK® MH Brand Setting-Type Joint Compound (TUF-SET™) is a low-consistency, high strength, chemically hardening powder compound that is specifically designed for the time-sensitive requirements of Industrialized Construction. When applied over SHEETROCK MH Brand Joint Tape (TUF-TAPE) or IMPERIAL® Brand Tape, Type P, TUF-SET Compound produces as solid and strong a joint in just two coats as regular SHEETROCK® Brand Setting-Type Joint Compound and regular SHEETROCK® Brand Joint Tape provide in three. Joints can be finished and decorated in a matter of hours. When used over SHEETROCK MH Brand Joint Tape (TUF-TAPE), TUF-SET Compound provides strong, crack-resistant joint finishing.

Limitations

- 1 SHEETROCK MH Brand Setting-Type Joint Compound (TUF-SET) is very difficult to sand smooth after drying. Smooth it before it hardens or while still in a damp but hardened state.
- 2 Hardening action cannot be delayed or prevented by dilution with water.
- 3 Not to be applied over moist surfaces or surfaces likely to become moist.

Installation

Mixing

Before mixing compound, position and apply SHEETROCK® MH Brand Gypsum Panels in accordance with manufacturer's recommendations. Make sure that mixing equipment is clean; set compound from previous batches will shorten the working time of new material. Use only clean, drinkable water. Also, over-mixing or mixing at too high a speed can shorten set times and entrain air in the mixture. Limit mixer speed to 400 rpm maximum under no-load conditions.

Place the amount of water recommended on the compound packaging in a clean 5-gallon pail. Sift in one bag (25 pounds) of compound and mix for approximately 30-45 seconds, or until relatively smooth. Allow the compound to stand (soak) for one minute, then remix the material and adjust the viscosity using a maximum of 1/2 to 1 pint of water. Stir until consistency is smooth and uniform.

Note: The cooler the conditions, the longer the soak-time needed. If the compound thickens during application before setting, allow a longer soak time. Do not add too much water during mixing.

Application

Keep air, water, mix, and surface temperature at minimum 55 °F until joints are completely dry. Apply SHEETROCK MH Brand Joint Tape (TUF-TAPE) or IMPERIAL Brand Tape, Type P, to joints (see publication MH1 178 for additional information on joint tape). Apply compound with an 8" or 10" drywall knife/trowel, completely filling the flat joints. Feather butt joints approx. 14" wide. Apply compound to corners conventionally and smooth with a corner tool. Apply compound to corner beads and fastener heads. Allow to harden. Shave off tool lap marks and other protrusions using a drywall knife as a plane. Apply second coat over joints, beads, and fastener heads. Lightweight setting-type compounds (such as TUF-SET Lite or SHEETROCK® Brand Lightweight Setting-Type Joint Compound—EASY SAND™) may be used as second coats. Use 10" or 12" drywall knife over flat joints. Feather butt joints to width of 16" or 20". Note: On the first compound application over the tape, be sure to force the compound completely through the tape so that it makes contact with the gypsum board, completely filling and leveling the joint. Failure to completely fill the joint may result in cracking.

Painting or texturing is not recommended before compound has set (hardened). For best decorating results, apply a prime coat of SHEETROCK® Brand First Coat or an undiluted, good quality, interior latex flat wall paint with high solids content once joint compound has set. Allow prime coat to dry before painting or texturing. **Note:** Vapor retarder paints may be used in place of drywall primer. However, experience has shown that certain VR paint formulations interfere with the setting action of joint compounds. This can lead to low strength, and can cause stress cracking. Before applying VR paints, make sure joint compound is fully set.

Product Data

Color: Light gray to white.

Binder: Vinyl.

Filler: Calcium sulfate.

Dilution (water): 8.5-10 pts. per 25 lbs. (4.0-4.7 L/11.3 kg).

Freezing Sensitivity: Once compound has set (it need not be completely dry), there is no freezing sensitivity.

Coverage: 40 to 50 lb./1000 ft.² (20 to 24 kg/100 m²) of gypsum panels.

Storage: Close open bags as tightly as possible and store in a dry place.

Shelf Life: Up to 6 mos. under protected storage conditions.

Packaging: 25 lb. (11.3 kg) bag.

Contains no asbestos.

Working and Setting Time: One of the most important considerations when choosing a setting-type compound for a particular situation is matching working-time and setting-time ranges to the cycle-time of the production line in question. Remember that working time and setting time are NOT the same. *Working time* refers to the period during which compound is suitable for application; at the end of this time, the material begins to stiffen and can no longer be spread smoothly. *Setting time*, on the other hand, refers to the time after which compound will become sufficiently hardened so that another coat may be applied, or so that the assembly may be moved. You must take *both* ranges into account when choosing the product to use on a specific line. The working time range should correspond to the application time needed, while the setting time range should match your schedule for moving an assembly along the line.

For USG's SHEETROCK MH Brand Joint Compounds, the following chart provides the working- and setting-time ranges that correspond to specific grades of compound. (Because it is physically impossible to control setting-time characteristics to the exact minute, time *ranges* are typically used when discussing setting-type joint compounds.)

Working and Setting Time Ranges (in minutes)

Grade	Working Time	Setting Time
15	7-12	10-18
20	10-20	15-25
30	15-30	25-35
45	25-50	35-55
60	40-80	55-85
90	60-125	85-130
210	150-220	180-240

WARNING

When mixed with water, this material hardens and then slowly becomes hot. DO NOT attempt to make a cast enclosing any part of the body using this material. Failure to follow these instructions may cause severe burns that may require surgical removal of affected tissue. When applying or sanding, wear safety glasses or goggles for eye protection. If eye contact occurs, flush thoroughly with water for 15 minutes to remove particles. If irritation continues, consult physician. Use wet-sanding technique to avoid creating dust. While mixing or dry sanding or if dusty conditions exist, wear a NIOSH/MSHA-approved respirator. Dust created when dry sanding or mixing may cause eye, nose, throat or upper res-

piratory irritation. If irritation continues, consult physician. Do not take internally. Product safety information: (800) 507-8899.

KEEP OUT OF REACH OF CHILDREN.

Trademarks:

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Note:

Products described here may not be available in all geographic markets. Consult your U.S. Gypsum Company sales office or representative for information.

Notice:

We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was reasonably should have been discovered.

Safety First!

Follow good safety and industrial hygiene practices during handling and installing all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.